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1 Techniques for obtaining high performance in Java programs

Iffat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Lilja September 2000 Computing Surveys (CSUR), Volume 32 Issue 3

Publisher: ACM Full text available: The Pdf (816.13 KB)

Additional Information: full citation, abstract, references, cited by,

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This survey describes research directions in techniques to improve the performance of written in the Java programming language. The standard technique for Java execution interpretation, which provides for extensive portability of programs. ...

Keywords: Java, Java virtual machine, bytecode-to-source translators, direct compile compilation, interpreters, just-in-time compilers

2 Optimization strategies for a java virtual machine interpreter on the cell broadband Kevin Williams, Albert Noll, Andreas Gal, David Gregg

May 2008 CF '08: Proceedings of the 2008 conference on Computing frontiers Publisher: ACM

Full text available: Tale (467.23 KB)

Additional Information: full citation, abstract, references, index ten

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 100, Citation Count: 0

Virtual machines (VMs) such as the Java VM are a popular format for running architect code in a managed runtime. Such VMs are typically implemented using a combination interpretation and just-in-time compilation (JLT). A significant challenge ...

Keywords: interpreter, java, language implementation, virtual machine

3 Context Threading: A Flexible and Efficient Dispatch Technique for Virtual Machin Interpreters

Marc Berndl, Benjamin Vitale, Mathew Zaleski, Angela Demke Brown

March 2005 CGO 105: Proceedings of the international symposium on Code generation and optimization

Publisher: IEEE Computer Society

Full text available: Pdf (231.06 KB)

Additional Information; full citation, abstract, references, cited by,

Bibliometrics: Downloads (6 Weeks): 9. Downloads (12 Months): 46. Citation Count: 5

Direct-threaded interpreters use indirect branches to dispatch bytecodes, but deeply-p architectures rely on branch prediction for performance. Due to the poor correlation be virtual program's control flow and the hardware program counter, ...

<sup>4</sup> Improving Java performance using hardware translation

Flamesh Radhakrishnan, Ravi Bhargava, Lizy K. John
June 2001 TCS '01: Proceedings of the 15th international conference on Supercomputing
Publisher: ACM

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 41, Citation Count: 3

However, these techniques for alleviating performance bottlenecks are ...

State of the art Java Virtual Machines with Just-In-Time (JIT) compilers make use of a compiler techniques, run-time profiling and adaptive compilation to improve performar

5 Java bytecode to native code translation: the caffeine prototype and preliminary re Cheng-Hsueh A. Hsieh, John C. Gyllenhaal, Wen-mel W. Hwu

December 1996 MI CRO 29: Proceedings of the 29th annual ACM/I EEE international sympo

Microarchitecture
Publisher: IEEE Computer Society
Full text available: The Computer Society
Full text available:

Full text available: Pdf (254.91 KB)

Additional Information: full citation, abstract, references, cited by,

Additional Information: full citation, abstract, references, cited by,

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 55, Citation Count: 18

The Java bytecode language is emerging as a software distribution standard. With maj committed to porting the Java run-time environment to their platforms, programs in & bytecode are expected to run without modification on multiple platforms. . . .

6 The structure and performance of interpreters

Theodore H. Romer, Dennis Lee, Geoffrey M. Voelker, Alec Wolman, Wayne A. Wong, Jean Baer, Brian N. Bershad, Henry M. Levy

December 1996 ASPLOS-VII: Proceedings of the seventh international conference on Arch support for programming languages and operating systems

Publisher: ACM
Full text available: Pdf (1.17 MB) Additional Information: full citation, abstract, references, cited by,
Bibliometrics: Downloads (6 Weeks): 5. Downloads (12 Months): 55. Citation Count: 18

Interpreted languages have become increasingly popular due to demands for rapid pro development, ease of use, portability, and safety. Beyond the general impression that "slow," however, little has been documented about the performance of ...

Also published in:

September 1996 SIGPLAN Notices Volume 31 Issue 9
December 1996 SIGOPS Operating Systems Review Volume 30 Issue 5

7 DialogXML: extending VoiceXML for dynamic dialog management Eric Nyberg, Teruko Mitamura, Nobuo Halaoka

March 2002 Proceedings of the second international conference on Human Language Techi Research

Publisher: Morgan Kaufmann Publishers Inc.

Full text available: Pdf (481.60 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 45, Citation Count: 0

The characteristics of VoiceXML make it an attractive choice for the implementation of dialog systems on networked hardware. Nevertheless, VoiceXML lacks some important found in existing proprietary approaches. It is difficult to build ...

8 A hardware/software prototyping environment for dynamically reconfigurable embr

Josef Fleischmann, Klaus Buchenrieder, Rainer Kress

March 1998 CODES/ CASHE '98: Proceedings of the 6th international workshop on Hardware/software codesign Publisher: IEEE Computer Society
Full text available: Pdf (42.66 KB) Additional Information: full citation, references, cited by, index ferr
Bibliometrics: Downloads (6 Weeks): 3. Downloads (12 Months): 15. Citation Count: 5

- 9 Developing mobile 3D applications with OpenGL ES and M3G
- Karı Pulli, Jani Vaarala, Ville Miettinen, Tomi Aarnio, Mark Callow July 2005 SI GGRAPH '05: SI GGRAPH 2005 Courses Publisher: ACM

Full text available: Pdf (9.22 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 26. Downloads (12 Months): 311. Citation Count: 0

10 Hard Java

Paul Frenger

May 2008 SIGPLAN Notices , Volume 43 Issue 5

Publisher: ACM Full text available: Pdf (1.29 MB)

Additional Information: full citation, abstract, references, index ter-

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 48, Citation Count: 0

Sun Microsystems has been a fantastic repository of talent for years, somewhat remini Apple Computer and the Xerox PARC (Palo Alto Research Center). Sun developed the § of CPUs for their Solaris Operating System (a flavor of Unix). This ...

11 A quantitative analysis of the performance impact of specialized bytecodes in java Ben Stephenson, Wade Hoist

October 2004 CASCON '04: Proceedings of the 2004 conference of the Centre for Advance on Collaborative research

Publisher: IBM Press

Full text available: Pdf (365.60 KB)

Additional Information: full citation, abstract, references, cited by, review

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 36, Citation Count: 2

Java is implemented by 201 bytecodes that serve the same purpose as assembler instrubile providing object-file platform independence. A collection of core bytecodes provided individual confidence of providing confidence of providing object-file and independent functionality while a collection of specialized ...

- 12 Modeling methodology for integrated simulation of embedded systems
- Akos Ledeczi, James Davis, Sandeep Neema, Aditya Agrawal
  January 2003 Transactions on Modeling and Computer Simulation (TOMACS), Volum
  Publisher: ACM

Full text available: Pdf (951.86 KB) Additional Information: tull citation, abstract, references, cited by,

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 111, Citation Count: 6

Developing a single embedded application involves a multitude of different developmer including several different simulators. Most tools use different abstractions, have their formalisms to represent the system under development, utilize different ....

Keywords: Simulation, domain specific languages, metamodeling, model integrated c modeling, simulation integration

13 Dynamo: a transparent dynamic optimization system

Vasanth Bala, Evelyn Duesterwald, Sanjeev Banerjia
August 2000 PLDI '00: Proceedings of the ACM SIGPLAN 2000 conference on Programmin
desion and implementation

Publisher: ACM

Full text available: Additional Information:

Pdf (156.03 KB)

full citation, abstract, references, cited by,

Bibliometrics: Downloads (6 Weeks): 57, Downloads (12 Months): 253, Citation Count: 167

We describe the design and implementation of Dynamo, a software dynamic optimizati this capable of transparently improving the performance of a native instruction streat executes on the processor. The input native instruction stream ...

Also published in:

May 2000 SIGPLAN Notices Volume 35 Issue 5

14 Self

David Ungar, Randall B. Smith

June 2007 HOPL III: Proceedings of the third ACM SIGPLAN conference on History of prolanguages

Publisher: ACM

Full text available: Nov (53:9 MIN), Pdf (1.70 MB) Additional Information: full citation, appendices and abstract, references, index te

Bibliometrics: Downloads (6 Weeks): 63, Downloads (12 Months): 425, Citation Count: 0

The years 1985 through 1995 saw the birth and development of the language Self, sta its design by the authors at Xerox PARC, through first implementations by Ungar and I students at Stanford University, and then with a larger team ...

Keywords: Self, adaptive optimization, cartoon animation, dynamic language, dynam optimization, exploratory programming, history of programming languages, morphic, coriented language, programming environment, prototype-based programming languag machine

15 A Conversation with James Gosling

Eric Allman

July 2004 Queue, Volume 2 Issue 5 Publisher: ACM

Full toxt available: Em Librei (20 20 KP) . MR Def (2 12 MP)

Full text available: Full timi (29.30 KB), Pour leads (2.12 MB) Additional Information: full citation, abstract, index.i

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 77, Citation Count: 0

As a teenager, James Gosling came up with an idea for a little interpreter to solve a pr data analysis project he was working on at the time. Through the years, as a grad stuc Sun as creator of Java and the Java Virtual Machine, ...

16 Proceedings of the 36th SIGCSE technical symposium on Computer science educ Wanda Dann, Tom Naps, Paul Tymann, Doug Baldwin

February 2005 SI GCSE '05: Proceedings of the 36th SIGCSE technical symposium on Comscience education

Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Welcome to St. Louis for the 36th year of the SIGCSE Technical Symposium on Compu Education. We are excited about SIGCSE 2005 and we hope you have as much fun as had in planning this event. There is much to see and do with a record ...

17 Formalizing the safety of Java, the Java virtual machine, and Java card

Pieter H. Hartel, Luc Moreau

December 2001 Computing Surveys (CSUR), Volume 33 Issue 4 Publisher: ACM

Full text available: Pdf (442.86 KB)

Additional Information: full citation, abstract, references, cited by,

Bibliometrics: Downloads (6 Weeks): 73, Downloads (12 Months): 407, Citation Count: 12

We review the existing literature on Java safety, emphasizing formal approaches, and of Java safety on small footprint devices such as smartcards. The conclusion is that alt of good work has been done, a more concerted effort is ...

## Keywords: Common criteria, programming

18 A co-design strategy for embedded Java applications based on a hardware interfa

invocation semantics

Andrew Borg, Rui Gao, Neil Audsley
October 2006 JTRES '06: Proceedings of the 4th international workshop on Java technolog
time and embedded systems

Publisher: ACM
Full text available: Pdf (430.56 KB)

Additional Information: full citation, abstract, references, index terr

Bibliometrics: Downloads (6 Weeks): 2. Downloads (12 Months): 41. Citation Count: 0

As programmable hardware technology gathers momentum, the partitioning of applica hardware and software will prove to be an increasingly important research area. Co-de technologies that achieve this partitioning typically adopt a strategy ...

Keywords: JavaMen, co-design, java

19 Developing and debugging algebraic specifications for Java classes

Johannes Henkel, Christoph Reichenbach, Amer Diwan

June 2008 Transactions on Software Engineering and Methodology (TOSEM), volume Publisher: ACM

Full text available: Pdf (565.85 KB) Additional Information: full citation, abstract, references, index ten

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 211, Citation Count: 0

Modern programs make extensive use of reusable software libraries. For example, a st number of large Java applications shows that between 17% and 30% of t in those applications use container classes defined in the java.util ...

Keywords: Algebraic interpretation, algebraic specifications, specification discovery

20 How java programs interact with virtual machines at the microarchitectural level Lieven Eeckhout, Andy Georges, Koen De Bosschere

November 2003 OOPSLA '03: Proceedings of the 18th annual ACM SIGPLAN conference or oriented programing, systems, languages, and applications Publisher: ACM

Full text available: Pcf (348.88 KB)

Additional Information: tuli citation, abstract, references, cited by,

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 112, Citation Count: 17

Java workloads are becoming increasingly prominent on various platforms ranging fror systems, over general-purpose computers to high-end servers. Understanding the imp all the aspects involved when running Java workloads, is thus ...

Keywords: Java workloads, performance analysis, statistical data analysis, virtual matechnology, workload characterization

Also published in:

November 2003 SIGPLAN Notices Volume 38 Issue 11

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